PTO/SB/21 (08-03)

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DEMARK		Application Number	10/674,657			)
IRANSMITTAL		Filing Date	September 29, 20	03		
FORM		First Named Inventor	Billy Wayne Crue			
(to be used for all correspondence after initial	filing)	Art Unit	n/a			
		Examiner Name	n/a			
Total Number of Pages in This Submission		Attorney Docket Number	SEAG 63203			
	ENC	LOSURES (Check all tha	t apply)			
Fee Transmittal Form		Drawing(s)	'	o Technol	rance communication ogy Center (TC)	
Fee Attached		Licensing-related Papers	، لــا	of Appeals	mmunication to Board and Interferences mmunication to TC	
Amendment/Reply		Petition Petition to Convert to a		Appeal No	tice, Brief, Reply Brief)	
After Final		Provisional Application Power of Attorney, Revocation	'	Proprietary	Information	
Affidavits/declaration(s)		Change of Correspondence Addr	633   L	Status Lett	· <del>-</del> ·	
Extension of Time Request	<u> </u>	Terminal Disclaimer		Other Enclosure(s) (please Identify below):		
Express Abandonment Request		Request for Refund		PTO/SB/0		
Information Disclosure Statement		CD, Number of CD(s)	- returr	postcard		
Certified Copy of Priority Document(s)	Remai	rks				
Response to Missing Parts/ Incomplete Application						
Response to Missing Parts under 37 CFR 1.52 or 1.53						
SIGNA	TURE C	F APPLICANT, ATTORN	EY, OR AGE	NT		
Firm Alan G. Towner Pietragallo, Bosick & Gord Individual name					-	
Signature	le M	llu /			·	
Date January 28, 2004						
CERTIFICATE OF TRANSMISSION/MAILING						
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
Typed or printed name Alan G. Towner	1.					
Signature		1 dun		Date	January 28, 2004	

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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

10/674,657

**Applicant** 

Billy Wayne Crue et al.

Filed

September 29, 2003

Title:

PERPENDICULAR MAGNETIC RECORDING

HEAD HAVING A FLUX FOCUSING MAIN POLE

TC/A.U.

n/a

Examiner

n/a

Docket No.

**SEAG 63203** 

Customer No.

35810

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 January 28, 2004

Sir:

Pursuant to the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants submit the attached Forms PTO/SB/08A and PTO/SB/08B for consideration of the cited references during prosecution of the subject application. Copies of the cited references can be found in the file corresponding to Serial No. 09/809,118, filed March 15, 2001 which is relied upon under 35 U.S.C. § 120.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

Respectfully submitted

Alan G. Towner

Registration No. 32,949

Pietragallo, Bosick & Gordon One Oxford Centre, 38th Floor

301 Grant Street

Pittsburgh, PA 15219

Attorney for Applicants

(412) 263-4340

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Sheet 1

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 4

Complete if Known					
Application Number	10/674,657				
Filing Date	9/29/2003				
First Named Inventor	Billy Wayne Crue				
Art Unit	n/a				
Examiner Name	n/a				
Attorney Docket Number	SEAG 63203				

	U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	<del> </del>	Number-Kind Code <sup>2 (I known)</sup>	· <del>  </del>		r iguico y dipodi.	
		<sup>US-</sup> 2,927,163	03-01-1960	Brower		
		<sup>US-</sup> 3,805,291	04-16-1974	Sakurai		
		<sup>US-</sup> 3,813,766	06-04-1974	Brock et al.		
		<sup>US-</sup> 4,001,890	01-04-1977	Kayser		
		<sup>US-</sup> 4,078,300	03-14-1978	Lazzari		
		<sup>US-</sup> 4,138,702	02-06-1979	Magnenet		
		<sup>US-</sup> 4,219,855	08-26-1980	Jones Jr.		
		US- 4,404,609	09-13-1983	Jones Jr.		
		<sup>US-</sup> 4,423,450	12-27-1983	Hamilton		
		<sup>US-</sup> 4,438,471	03-20-1984	Oshiki et al.		
		<sup>US-</sup> 4,441,131	04-03-1984	Osanai .		
		<sup>US-</sup> 4,541,026	09-10-1985	Bonin et al.		
		<sup>US-</sup> 4,546,398	10-08-1985	Toda et al.		
		US- 4,575,777	03-11-1986	Hosokawa		
		<sup>US-</sup> 4,613,918	09-23-1986	Kanai et al.		
		<sup>US-</sup> 4,631,612	12-23-1986	Shiiki et al.		
		<sup>US-</sup> 4,639,810	01-27-1987	Sakai		
		<sup>US-</sup> 4,649,449	03-10-1987	Sawada et al.		
		<sup>US-</sup> 4,652,956	03-24-1987	Schewe		

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵	
		GB 1344890	01-23-1974	Int'l Business Machin	es Corp.		
	_	JP 56087218	07-15-1981	Toshiba Corp.			
		JP 59195311	11-06-1984	NEC Corp.			
		JP 59231720	12-26-1984	Matsushita Electric I	nd. Co. Ltd		
		JP 2001-148107A		Matsushita Electric I			

Examiner	Date	
Signature	Considered	

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Sheet 2

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of

•	Filing Date	9/29/2003	
	First Named Inventor	Billy Wayne Crue	
-	Art Unit	n/a	
	Examiner Name	n/a	
	Attorney Docket Number	SEAG 63203	

Complete if Known

10/674,657

U. S. PATENT DOCUMENTS Pages, Columns, Lines, Where Name of Patentee or Examiner Cite Document Number **Publication Date** Relevant Passages or Relevant Initials\* MM-DD-YYYY Applicant of Cited Document Figures Appear Number-Kind Code<sup>2</sup> (# known) <sup>US-</sup> 4,672,494 06-09-1987 Furuya et al. <sup>US-</sup> 4,703,382 Schewe et al. 10-27-1987 <del>US-</del> 4,731,157 03-15-1988 Lazzari US- 4,742,413 05-03-1988 Schewe <sup>US-</sup> 4,763,215 08-09-1988 Gueugnon et al. US-4.839,761 06-13-1989 Gatzen <sup>US-</sup> 4,860,139 08-22-1989 Hamilton US- 4,873,599 10-10-1989 Sueoka <sup>US-</sup> 4.931.886 Mallary 06-05-1990 <sup>US-</sup> 4,943,882 07-24-1990 Wada et al. us- 4,974,110 Kanamine et al. 11-27-1990 <sup>US-</sup> 4,985,792 Moir 01-15-1991 <sup>US-</sup> 5.016,342 Pisharody et al. 05-21-1991 US-5,027,246 06-25-1991 Numazawa et al. us- 5,068,959 Sidman 12-03-1991 <sup>US-</sup> 5,073,836 12-17-1991 Gill et al. Lazzari <sup>US-</sup> 5,196,976 03-23-1993 Wada et al. <sup>US-</sup> 5,225,953 07-06-1993 <sup>US-</sup> 5,241,430 08-31-1993 Janz

,	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ°	
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Sheet 3 of 4

Complete if Known					
Application Number	10/674,657				
Filing Date	9/29/2003				
First Named Inventor	Billy Wayne Crue				
Art Unit	n/a				
Examiner Name	n/a				
Attorney Docket Number	SEAG 63203				

	U. S. PATENT DOCUMENTS						
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	ļ	Number-Kind Code <sup>2 (if known)</sup>			Figures Appear		
	ļ.,,,,	<sup>US-</sup> 5,305,516	04-26-1994	Imazeki et al.			
		<sup>US-</sup> 5,372,698	12-13-1994	Liao			
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	:	<sup>US-</sup> 5,942,342	08-24-1999	Hikosaka et al.			
	ŀ	<sup>US-</sup> 5,991,126	11-23-1999	Hayashi et al.			
		<sup>US-</sup> 5,995,341	11-30-1999	Tanaka et al.			
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	FOREIGN PATENT DOCUMENTS						
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	ļ	Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>	
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Sheet

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

Application Number	10/674,657	
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Examiner Name	n/a	

Attorney Docket Number | SEAG 63203

Complete if Known

**U. S. PATENT DOCUMENTS** Examiner Cite Document Number Publication Date Name of Patentee or Pages, Columns, Lines, Where Initials\* MM-DD-YYYY **Applicant of Cited Document** Relevant Passages or Relevant Figures Appear Number-Kind Code<sup>2</sup> (# known) <sup>US-</sup> 6,259,583 07-10-2001 Fontana Jr. et al. <sup>US-</sup> 6,317,290 Wang et al. 11-13-2001 US-09/695,679 10-24-2000 Khizroev et al. <sup>US-</sup> 09/726,157 11-29-2000 (now U.S. Patent 6,560,069) Litvinov et al. <sup>US-</sup>2001/0022712 09-20-2001 Funayama et al. US- 2001/0027603 10-11-2001 Komuro et al. US-UŞ-US-US-US-IIS. US-US-US-US-US-US-US

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Substitute for form 1449/PTO				Complete if Known		
		Application Number	10/674,657			
INFORMATION DISCLOSURE			SCLOSUR	Filing Date	09/29/2003	
STATEMENT BY APPLICANT		First Named Inventor	Billy Wayne Crue			
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			- nocessary)	Examiner Name	n/a	_
Sheet	1	of	1	Attorney Docket Number	SEAG 63203	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
		KHIZROEV ET AL., "Considerations in the Design of Probe Heads for 100 Gbit/in2 Recording Density", IEEE Transaction of Magnetics, Vol. 3, No. 5, Sept. 1997, pp. 2893-2895.		
		TOIGO, "Avoiding A Data Crunch", Scientific American, May 2000, pp. 58-61, 64-67 and 70-74.		
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